

What is Claimed:

1. A diverter for a projectile, comprising:

a header assembly providing a mounting surface and support for a plurality of electrical leads;

a reactive semiconductor bridge mounted on the mounting surface of the header assembly and providing an electrical path for the electrical leads at a certain voltage across the bridge;

a diverter body supporting the header assembly and containing a prime, wherein the reactive semiconductor bridge and the prime define a gap; and

an end cap attached to the diverter body and containing a propellant, wherein the rapid burning of the propellant produces gases, which eject the end cap from the diverter body to produce a force to divert the projectile.

2. A diverter for a projectile, comprising:

a mounting surface with a plurality of conductive paths;

a header assembly providing support for a plurality of electrical leads, wherein one electrical lead connects to one of the plurality of conductive paths and another electrical lead connects to another one of the plurality of conductive paths;

a semiconductor bridge mounted on the mounting surface and providing along with the conductive paths an electrical path from one electrical lead to another electrical lead when a certain voltage is applied across the semiconductor bridge;

a diverter body supporting the header assembly and containing a prime, wherein the mounting surface is located at the exit end of the diverter body, and wherein the semiconductor bridge and the prime define an ignition source; and

a propellant beneath the prime which rapidly burns once the prime ignites such that the propellant produces gases producing a force out of the exit end of the diverter body to divert the projectile and a force retaining un-burnt propellant in the diverter body.